

[illegible]

FIGURE 1

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

[CTGCAGTCTATTGGATGAAGAGTGACATATTCATATAATTCTTAAAGTAGGCAGAAAT
 TAAAGGGGATGGAAATATATACTTGTACTGCCTTAGATAGTCACCAGGATGTTGTTACAG
 TCTTCGTTTACTGCTTCTGAAGCCTATACTGATAGAATTAATAAAATACTGAGAGAGAGA
 GAGAGGGACAGA
 GAGAGAGAGAGAGAAGAGAAGAAAACAAGGTSAGCCATCTGCTTAACCTTATGTCCACAT
 TCTCTCAAGAGCATTGTCTTATTTGTAGAATTATCTATATTGTTAAGAATCATCTCCATT
 GTTAAGATTGTGTTGGCTGGAGATCCAGCTCTGTTGATAAAGTGCTTGCCTAACATGCAT
 GAAGTCTAGGTTCTATTCCAAGGCTACATAAAACCTTGTTGTGATGAATGCCTGTA
 ATCCCAGTACGCAAGGAGAGACAAGGAGGATCAGAAGCTTAAGGACATCATTTTGTGA
 CATAGTGAGTTTTCAGGAAAGCTGAGGTTACATGGAACCTCTCTCTCTCAAAAACAAAAC
 AAAACAAAACAAAACCTTCTACTAATATTCTGGATTCTGTTTGGATCTCAAG
 AGCATGCTGACGTCATTATGTGTTTCCATCAGATACAGACAGAGATCATAAACATTTAA
 CTCATTGATTATATGTTGAGAGTTGTCCCTCAAGAACCAATGGCCAAACATCCACTGAGG
 ATACACGGAAGCTTAGAATATCTCTAATTAATAATCCTGACATAATGGAAGTGCTCACAAA
 CCAGCC] AACACCTAATAAAACCAAGTGGCAAGAGCAACAACCTCGGCATTTTTCTACTTTG
AATCCTGCCAACCCCTTTTCTAGCCATACTCTTGCTACTCATAGCATATACTGTGATCC
AAGCTCAAAATGTTACCAACATACTGATT [GCCAACCTGTCCTCTCTGACATCTTGGTG
 TGTGTCATGTGCATCCCTTTTACGTCATCTACACTCTGATGGACCACTGGGTATTTGGG
 AACACTATGTGTAACTCACTTCCTACGTGCAAGTGCTCTCAGTTTCTGTGTCATATTC
 TCCCTTGTTGATTGCTATTGAACGATATCAGCTGATTGTGAACCCCGTGGCTGGAAA
 CCCAGAGTAGCTCATGCCTATTGGGGGATCATCTTGATTGGGCTCATTTCTCTGACATTG
 TCTATTCCCTTATTCCTGTCTTACCACCTACCAATGAGCCCTTCATAATCTCTCTCTC
 CCTACTGACATCTACACCCACCAGGTAGCTTGTGTTGAGATTGGCCCTTCTAACTGAAC
 CAACTCCTCTTTCTACATCATTTATGCTCCAGTATTTGTCCCTCTGGGTTTCATT
 CTTATCTGCTACCTGAAGATCGTTCTCTGCCTCGAAAAAGAACTAGGCAGGTGGACAGG
 AGAAAGGAAAAAAGAGCCGCTCAATGAGAACAAGAGGTAAATGTGATGTTGATTTC
 ATCGTAGTGACTTTTGGAGCCTGCTGGTTGCCCTTGACATTTTCAATGTCTCTCGAC
 TGGTATCATGAGATGCTGATGAGCTGCCACCACGACCTGGTATTTGTAGTTTGCCACTTG
 ATTGCTATGGTTTCTACTTGCAATAATCCTCTCTTTATGGATTCTCAACAAAACTTC
 CAGAAG] GATCTAATGATGCTTATTACCACTGTTGGTGTGGTGAACCTCAGGAAAGTTA
 TGAAAAATATTGCCATGTCTACTATGCACACAGATGAATCCAAGGGATCAATAAACTGGC
 TCACATACCAACAGGCATATAGAACTGGTAAGCAAAATCAAGCCCTTCTGTTATGAAA
 GAAAGAGAAGAAATAGTATGGAATAGGGCAAGGTGCAGAGGAAGCCAGACTTAAACACAT
 AATATCTTTGGGCCAGTTTGTCTTAAGTTAAGCATGTCTACTTCATTGAGCCATAGAA
 CACACAGAGATTTATCCCTACCTTTCTTTTCTTTTGGGAAGATAATAACTTAAACA
 ACCTAGACATCATTAAGGAAAGAGAACAATAATGAGAGAGCATACAAGGACAGCAGAG
 ATGCTTGGGGTACAAAATTCACGTTATTGCTGGAATAGCTAGAAAGTTATTAGTTGTGC
 TGCAG

FIGURE 2A

Gene Sequence Structure

*

846 bp

Sequence Deleted

1047 bp

Size of CDS: 2281 bp

Targeting Vector* (genomic sequence)

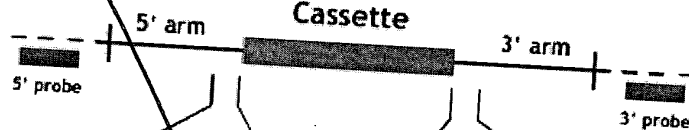
Construct Number: 2762

Arm Length:

5': 5 kb

3': 0.5 kb

LacZ-Neo Cassette



———— Targeting Vector
 - - - - Endogenous Locus

* Not drawn to scale

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5' > TTTAGGATCTCAAGAGCATGC
TGACGTCATTTATGTGTTTCCATC
AGATACTGACAGAGATCATAAACA
TTTAACCTCATTGATTATATGTTGA
GAGTTGTCCTCAAGAACCAATGG
CCAAACATCCACTGAGGATACACG
GAAGCTTAGAAAATCTCTAATTAA
AATCCTGACATAATGGAAGTGCTC
ACAAACCAGCC<3'
(SEQ ID NO:2)
  
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5' > GCCAACCTGTCCCTCTCTGAC
ATCTTGGTGTGTGCATGTGCATC
CCTTTTACGGTCATCTACACTCTG
ATGGACCACTGGGTATTTGGGAAC
ACTATGTGTAAACTCACTTCCTAC
GTGCAAAGTGTCTCAGTTTCTGTG
TCCATATTCTCCCTTGTGTGATT
GCTATTGAACGATATCAGCTGATT
GTCAACCCCG<3'
(SEQ ID NO:3)
  
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FIGURE 2B